

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Mark Clardy Examiner #: 69462 Date: 9/6/2002
 Art Unit: 1616 Phone Number 308-4550 Serial Number: 09/787,214
 Mail Box and Bldg/Room Location: CM1-2D19 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

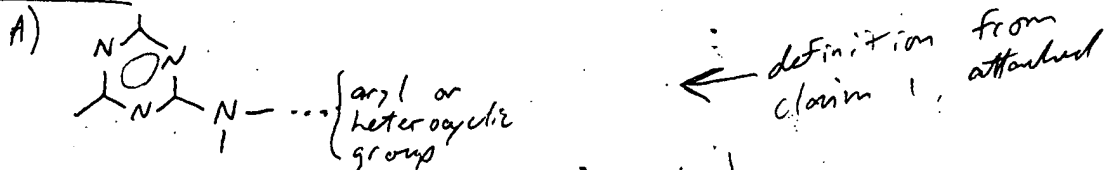
 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____
 Inventors (please provide full names): attached

Earliest Priority Filing Date: _____

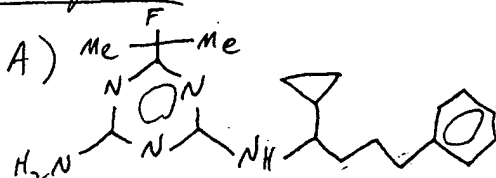
For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Generic Claim — synergistic herbicidal composition comprising:

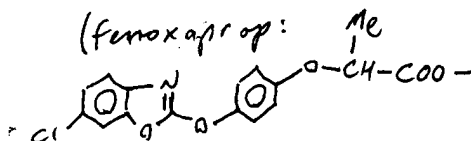


B) A second herbicide (extensive list)

Elected Species



B) Fenoxaprop-p-ethyl



STAFF USE ONLY

Type of Search

Vendors and cost where applicable

Searcher: <u>Point of Contact:</u>	NA Sequence (#) _____	STN <u>\$ 2780</u>
Searcher Phone # <u>Alexandra Wacławiw</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: <u>CM1 6A02 Tel: 308-4491</u>	Structure (#) <u>3</u>	Questel/Orbit _____
Date Searcher Picked Up: <u>9-9-02</u>	Bibliographic _____	Dr.Link _____
Date Completed: <u>9-9-02</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

Clardy 09/787,214

=> d his

(FILE 'HOME' ENTERED AT 14:19:12 ON 09 SEP 2002)

FILE 'REGISTRY' ENTERED AT 14:19:26 ON 09 SEP 2002

L1 STR
L2 50 S L1
L3 35054 S L1 FUL
SAVE L3 TEMP CLARDY/A
E FENOXAPROP/CN
L4 1 S E3
L5 39 S 95617-09-7/CRN
L6 4 S L5 AND L3
L7 STR 95617-09-7
L8 48 S L7 FUL FAM
SAVE L8 TEMP CLARDY2/A
L9 STR L1
L10 23 SEARCH L9 SSS SUB=L3 FUL
SAVE L10 TEMP CLARDY3/A
L11 0 S L10 AND L8

FILE 'HCAPLUS' ENTERED AT 14:27:03 ON 09 SEP 2002

L12 0 S L10 AND L8
L13 4 S L10

FILE 'REGISTRY' ENTERED AT 14:28:30 ON 09 SEP 2002

FILE 'HCAPLUS' ENTERED AT 14:29:08 ON 09 SEP 2002

FILE 'HCAOLD' ENTERED AT 14:29:57 ON 09 SEP 2002

L14 0 S L10

FILE 'REGISTRY' ENTERED AT 14:30:12 ON 09 SEP 2002

L15 0 S L10 AND (CAPLUS OR CA)/LS
L16 23 S L10 AND (CAPLUS OR CA)/LC
L17 23 S L10 AND USPATFULL/LC
L18 0 S L17 NOT L16

Clardy 09/787,214

=> fil reg

FILE 'REGISTRY', ENTERED AT 14:28:30 ON 09 SEP 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES: 6 SEP 2002 HIGHEST RN 447682-31-7
DICTIONARY FILE UPDATES: 6 SEP 2002 HIGHEST RN 447682-31-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

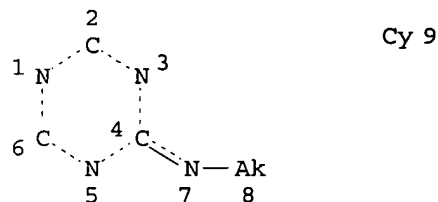
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d que 13

L1 STR



NODE ATTRIBUTES:

CONNECT IS E3 RC AT 2
CONNECT IS E3 RC AT 6
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

broad search

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L3 35054 SEA FILE=REGISTRY SSS FUL L1

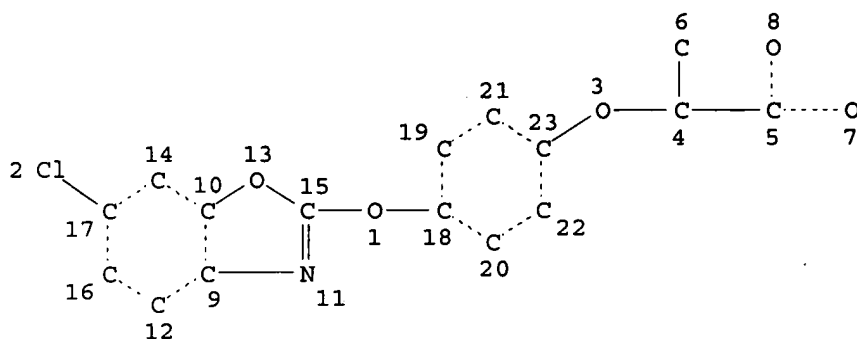
too many hits!

=> d que 18

L7 STR

*↳ if you want this
broad search searched
with second
handwise, please
provide list.*

Clardy 09/787,214



NODE ATTRIBUTES:
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DEFAULT ECLEVEL IS LIMITED

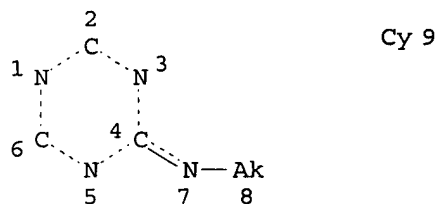
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NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE
L8 48 SEA FILE=REGISTRY FAM FUL L7

family search of
Fenoxaprop

=> d que 10
~~'10 IS NOT VALID HERE~~

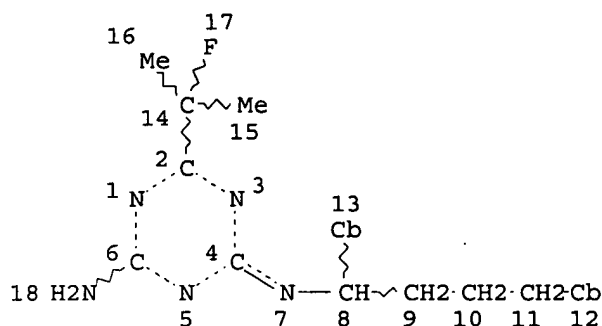
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L1 STR



NODE ATTRIBUTES:
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CONNECT IS E3 RC AT 6
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE
L3 35054 SEA FILE=REGISTRY SSS FUL L1
L9 STR



NODE ATTRIBUTES:

CONNECT IS E3 RC AT 2
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 DEFAULT MLEVEL IS ATOM
 GGCAT IS MCY UNS AT 12
 GGCAT IS MCY SAT AT 13
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

L10 23 SEA FILE=REGISTRY SUB=L3 SSS FUL L9

=> d his l11

(FILE 'REGISTRY' ENTERED AT 14:19:26 ON 09 SEP 2002)

SAVE L10 TEMP CLARDY3/A

L11

0 S L10 AND L8

elect A + B in one compound (mixture)

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 14:29:08 ON 09 SEP 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 9 Sep 2002 VOL 137 ISS 11

FILE LAST UPDATED: 8 Sep 2002 (20020908/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.
'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d que nos l12

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L3 35054 SEA FILE=REGISTRY SSS FUL L1
L7 STR
L8 48 SEA FILE=REGISTRY FAM FUL L7
L9 STR
L10 23 SEA FILE=REGISTRY SUB=L3 SSS FUL L9
L12 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L10 AND L8

*elected A+B in
Some reference*

=> d que nos l13

L1 STR
L3 35054 SEA FILE=REGISTRY SSS FUL L1
L9 STR
L10 23 SEA FILE=REGISTRY SUB=L3 SSS FUL L9
L13 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L10

elected (A)

=> d .ca hitstr l13 1-4

L13 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2002:72066 HCAPLUS
DOCUMENT NUMBER: 136:118475
TITLE: Preparation of N-triazinylformimines and analogs as herbicides and plant growth regulators
INVENTOR(S): Giencke, Wolfgang; Willms, Lothar; Auler, Thomas; Bieringer, Hermann; Menne, Hubert
PATENT ASSIGNEE(S): Aventis Cropscience G.m.b.H., Germany
SOURCE: PCT Int. Appl., 140 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002006251	A1	20020124	WO 2001-EP7591	20010703
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EC, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10035038	A1	20020131	DE 2000-10035038	20000719
US 2002115567	A1	20020822	US 2001-906932	20010717

PRIORITY APPLN. INFO.:

DE 2000-10035038 A 20000719

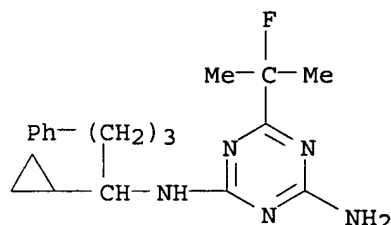
OTHER SOURCE(S): MARPAT 136:118475

AB Title compds. (e.g., I; R1 = H and R2 = CHNOH, R1R2 = CHNMe2, CHC6H4Cl-4) were prepd. as herbicides and plant growth regulators (no data).

IC ICM C07D251-18

ICS C07D403-12; A01N043-68

CC 28-19 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 5
 IT 104-88-1, reactions 252576-83-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of N-triazinylformimines and analogs as herbicides and plant growth regulators)
 IT 252576-83-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of N-triazinylformimines and analogs as herbicides and plant growth regulators)
 RN 252576-83-3 HCAPLUS
 CN 1,3,5-Triazine-2,4-diamine, N-(1-cyclopropyl-4-phenylbutyl)-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:453036 HCAPLUS
 DOCUMENT NUMBER: 135:46208
 TITLE: 4,6-Substituted 2-amino-1,3,5-triazine derivatives as herbicides and plant growth regulators
 INVENTOR(S): Giencke, Wolfgang; Willms, Lothar; Auler, Thomas; Bieringer, Hermann; Rosinger, Christopher
 PATENT ASSIGNEE(S): Aventis Cropscience G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 153 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001044208	A1	20010621	WO 2000-EP11861	20001128
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19960683	A1	20010823	DE 1999-19960683	19991215
US 2001011063	A1	20010802	US 2000-735851	20001213
PRIORITY APPLN. INFO.:			DE 1999-19960683 A 19991215	

OTHER SOURCE(S): MARPAT 135:46208

AB Title compds. I [R = (un)substituted Ph; R1 = (un)substituted aryl, cycloalkyl, heterocyclyl, alkyl, alkenyl, alkynyl; R2 = (un)substituted,

satd., partially unsatd. or arom. carbocyclic or heterocyclic; R3 = H, (un)substituted alkyl, aryl, cycloalkyl, NH2, NHNH2; R4 = H, acyl, alkoxy carbonyl, carbamoyl etc.] and their (R)- and (S)-isomers were prepd. for use as herbicides and plant growth regulators. Thus, (R)-3-phenyl-1-cyclobutylpropylamine was treated with cyanoguanidine and the resulting biguanide was cyclized with Me2CFCO2Me to give (R)-I [R = Ph, R1 = CFMe2, R2 = cyclobutyl, R3 = NH2, R4 = H, A = CH2CH2] which showed both pre- and post-emergent herbicidal activity (no data).

IC ICM C07D251-18

ICS C07D405-12; C07D405-14; C07D413-12; C07D417-12; C07D403-12; C07D251-22; A01N043-68; A01N043-76; A01N043-78; A01N043-66

CC 28-19 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

IT 344588-77-8P 344588-78-9P 344588-79-0P 344588-80-3P 344588-81-4P
 344588-82-5P 344588-83-6P 344588-84-7P 344588-85-8P 344588-86-9P
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 344590-55-2P 344590-56-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of 4,6-substituted 2-amino-1,3,5-triazines as herbicides and plant growth regulators)

IT 344589-52-2P 344589-53-3P 344589-54-4P
 344589-57-7P 344589-58-8P 344589-60-2P
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Clardy 09/787,214

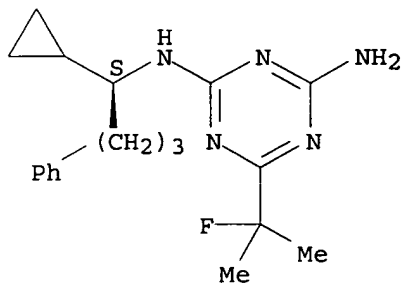
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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of 4,6-substituted 2-amino-1,3,5-triazines as herbicides and plant growth regulators)

RN 344589-52-2 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1S)-1-cyclopropyl-4-phenylbutyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

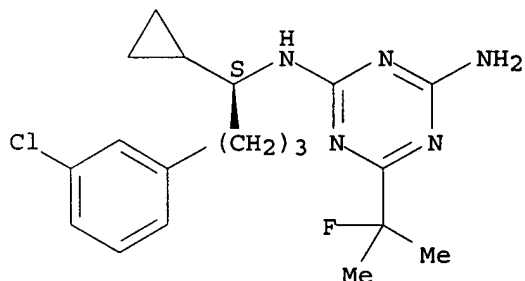
Absolute stereochemistry.



RN 344589-53-3 HCAPLUS

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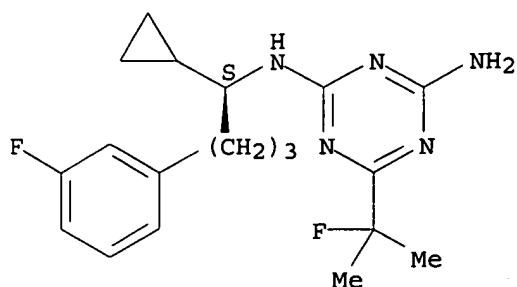
Absolute stereochemistry.



RN 344589-54-4 HCAPLUS

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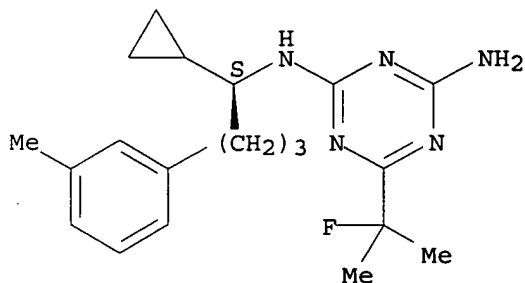
Absolute stereochemistry.



RN 344589-57-7 HCAPLUS

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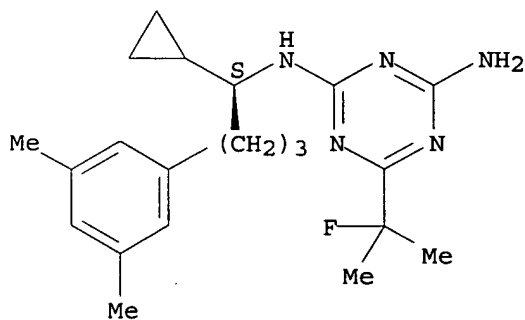
Absolute stereochemistry.



RN 344589-58-8 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1S)-1-cyclopropyl-4-(3,5-dimethylphenyl)butyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

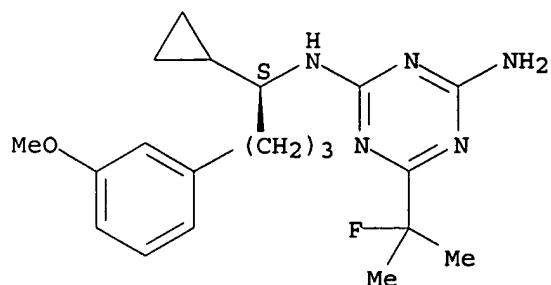
Absolute stereochemistry.



RN 344589-60-2 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1S)-1-cyclopropyl-4-(3-methoxyphenyl)butyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

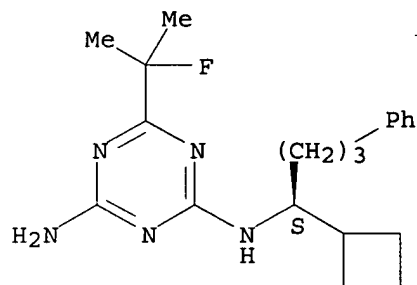
Absolute stereochemistry.



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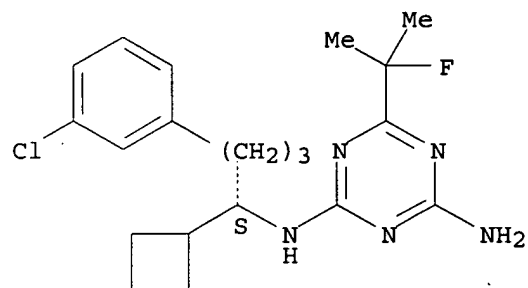
Absolute stereochemistry.



RN 344589-66-8 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1S)-4-(3-chlorophenyl)-1-cyclobutylbutyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

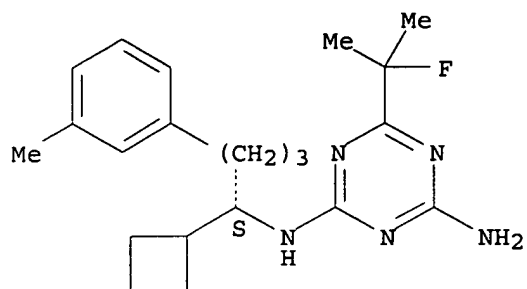
Absolute stereochemistry.



RN 344589-68-0 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1S)-1-cyclobutyl-4-(3-methylphenyl)butyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

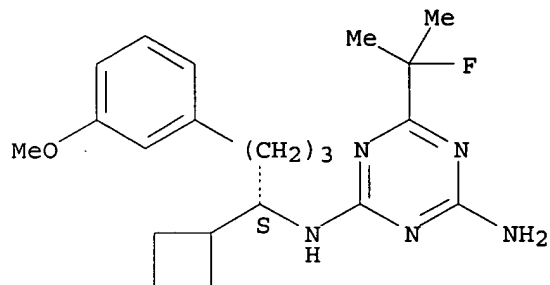
Absolute stereochemistry.



RN 344589-70-4 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1S)-1-cyclobutyl-4-(3-methoxyphenyl)butyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

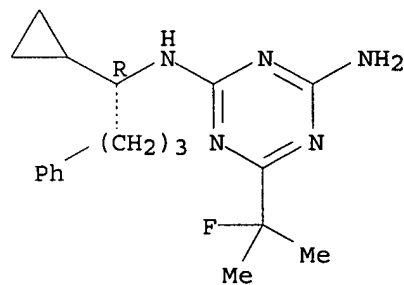
Absolute stereochemistry.



RN 344589-76-0 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1R)-1-cyclopropyl-4-phenylbutyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

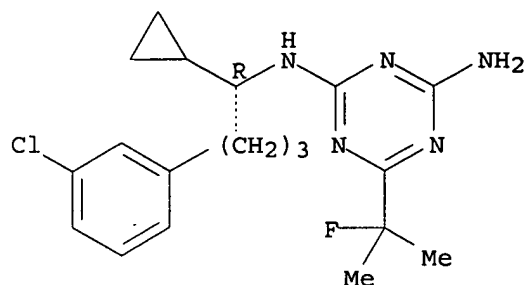
Absolute stereochemistry.



RN 344589-77-1 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1R)-4-(3-chlorophenyl)-1-cyclopropylbutyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

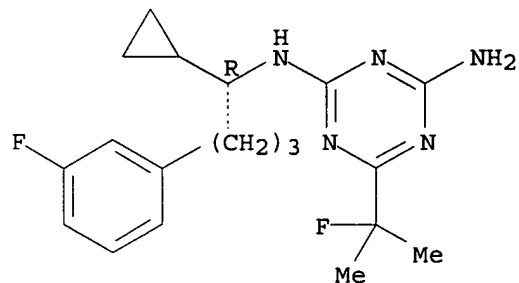
Absolute stereochemistry.



RN 344589-78-2 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1R)-1-cyclopropyl-4-(3-fluorophenyl)butyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

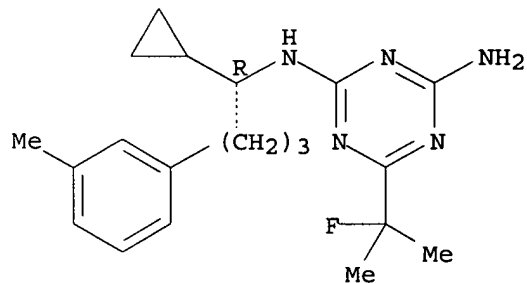
Absolute stereochemistry.



RN 344589-81-7 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1R)-1-cyclopropyl-4-(3-methylphenyl)butyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

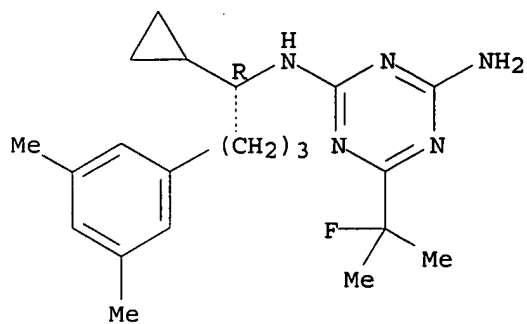
Absolute stereochemistry.



RN 344589-82-8 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1R)-1-cyclopropyl-4-(3,5-dimethylphenyl)butyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

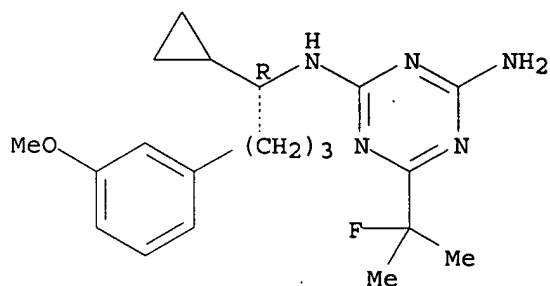
Absolute stereochemistry.



RN 344589-84-0 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1R)-1-cyclopropyl-4-(3-methoxyphenyl)butyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

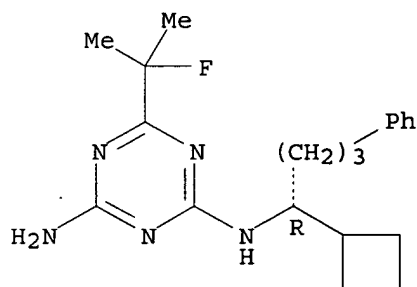
Absolute stereochemistry.



RN 344589-88-4 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1R)-1-cyclobutyl-4-phenylbutyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

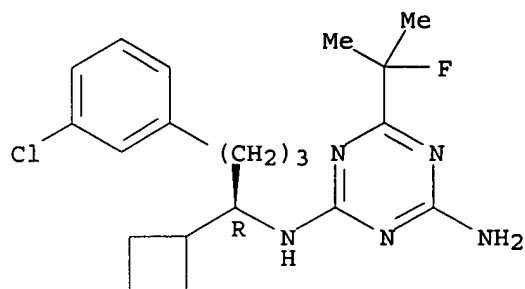
Absolute stereochemistry.



RN 344589-90-8 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1R)-4-(3-chlorophenyl)-1-cyclobutylbutyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

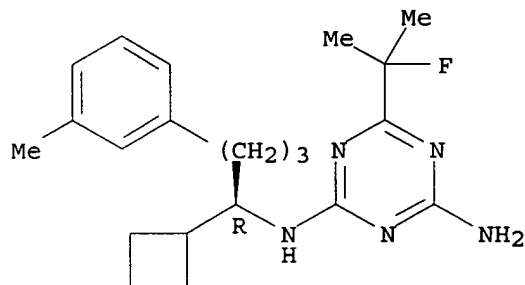
Absolute stereochemistry.



RN 344589-92-0 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1R)-1-cyclobutyl-4-(3-methylphenyl)butyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

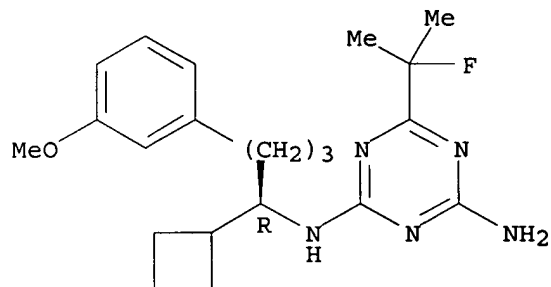
Absolute stereochemistry.



RN 344589-94-2 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[(1R)-1-cyclobutyl-4-(3-methoxyphenyl)butyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:188349 HCAPLUS

DOCUMENT NUMBER: 132:204354

TITLE: Synergistic herbicidal compositions comprising aminotriazine derivatives.

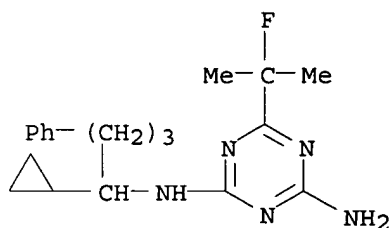
INVENTOR(S): Auler, Thomas; Bieringer, Hermann; Giencke, Wolfgang; Hacker, Erwin; Hollander, Jens; Minn, Klemens; Willms, Lothar; Zindel, Juergen

PATENT ASSIGNEE(S): Hoechst Schering Agrevo G.m.b.H., Germany
 SOURCE: Ger. Offen., 42 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19842894	A1	20000323	DE 1998-19842894	19980918
WO 2000016627	A1	20000330	WO 1999-EP6937	19990920
W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9959796	A1	20000410	AU 1999-59796	19990920
BR 9914496	A	20010626	BR 1999-14496	19990920
EP 1113720	A1	20010711	EP 1999-969311	19990920
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002526428	T2	20020820	JP 2000-573598	19990920
PRIORITY APPLN. INFO.: DE 1998-19842894 A 19980918				
WO 1999-EP6937 W 19990920				
AB	The title compn. comprises an aminotriazine deriv, I [L = alkylene, optionally contg. O, N, SOx or NO; x = 0, 1 or 2; M = (un)substituted aryl or heterocyclyl] and any of a large no. of known herbicides.			
IC	ICM A01N043-68			
CC	5-3 (Agrochemical Bioregulators)			
IT	93-65-2D, Mecoprop, mixts. with aminotriazine derivs. 94-74-6D, MCPA, mixts. with aminotriazine derivs. 94-75-7D, 2,4-D, mixts. with aminotriazine derivs. 120-36-5D, Dichlorprop, mixts. with aminotriazine derivs. 1689-83-4, Ioxynil 1689-84-5D, Bromoxynil, mixts. with aminotriazine derivs. 1702-17-6D, Clopyralid, mixts. with aminotriazine derivs. 1918-00-9D, Dicamba, mixts. with aminotriazine derivs. 1918-02-1D, Picloram, mixts. with aminotriazine derivs. 15545-48-9D, Chlortoluron, mixts. with aminotriazine derivs. 21087-64-9D, Metribuzin, mixts. with aminotriazine derivs. 25057-89-0D, Bentazone, mixts. with aminotriazine derivs. 34123-59-6D, Isoproturon, mixts. with aminotriazine derivs. 40487-42-1D, Pendimethalin, mixts. with aminotriazine derivs. 42576-02-3D, Bifenox, mixts. with aminotriazine derivs. 51338-27-3D, Diclofop-methyl, mixts. with aminotriazine derivs. 52888-80-9D, Prosulfocarb, mixts. with aminotriazine derivs. 64902-72-3D, Chlorsulfuron, mixts. with aminotriazine derivs. 69377-81-7D, Fluroxypyr, mixts. with aminotriazine derivs. 71283-80-2D, mixts. with aminotriazine derivs. 77501-90-7D, Fluoroglycofen-ethyl, mixts. with aminotriazine derivs. 79277-67-1D, Thifensulfuron, mixts. with aminotriazine derivs. 79510-48-8D, Metsulfuron, mixts. with aminotriazine derivs. 81405-85-8D, Imazamethabenz-methyl, mixts. with aminotriazine derivs. 81777-89-1D, Chlomezone, mixts. with aminotriazine derivs. 82097-50-5D, Triasulfuron, mixts. with aminotriazine derivs. 83164-33-4D, Diflufenican, mixts. with aminotriazine derivs. 87820-88-0D, Tralkoxydim, mixts. with aminotriazine derivs. 94125-34-5D, Prosulfuron, mixts. with aminotriazine derivs. 96525-23-4D, Fluortanone, mixts. with aminotriazine derivs. 98967-40-9D, Flumetsulam, mixts. with aminotriazine derivs. 101200-48-0D, Tribenuron-methyl, mixts. with			

Ang's


aminotriazine derivs. 105512-06-9D, Clodinafop-propargyl, mixts. with
aminotriazine derivs. 120923-37-7D, Amidosulfuron, mixts. with
aminotriazine derivs. 128639-02-1D, Carfentrazone-ethyl, mixts. with
aminotriazine derivs. 129630-17-7D, Pyraflufen, mixts. with
aminotriazine derivs. 139528-85-1D, Metosulam, mixts. with aminotriazine
derivs. 141112-29-0D, Isoxaflutole, mixts. with aminotriazine derivs.
141776-32-1D, Sulfosulfuron, mixts. with aminotriazine derivs.
142459-58-3D, Fluthiamide, mixts. with aminotriazine derivs.
150315-10-9D, Flupyr-sulfuron, mixts. with aminotriazine derivs.
185119-76-0D, Iodosulfuron, mixts. with aminotriazine derivs.
205869-58-5D, mixts contg. 211504-20-0D, mixts contg. 211504-31-3D,
mixts contg. 252576-81-1D, mixts contg. **252576-83-3D**, mixts
contg. 257287-50-6D, AEF060, mixts. with aminotriazine derivs.
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic herbicidal compns.)
IT **252576-83-3D**, mixts contg.
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic herbicidal compns.)
RN 252576-83-3 HCAPLUS
CN 1,3,5-Triazine-2,4-diamine, N-(1-cyclopropyl-4-phenylbutyl)-6-(1-fluoro-1-
methylethyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:811219 HCAPLUS

DOCUMENT NUMBER: 132:35722

TITLE: Preparation of 2,4-diamino-1,3,5-triazines as
herbicides and plant growth regulators.

INVENTOR(S): Giencke, Wolfgang; Minn, Klemens; Willms, Lothar;
Auler, Thomas; Bieringer, Hermann; Rosinger,
Christopher

PATENT ASSIGNEE(S): Hoechst Schering Agrevo G.m.b.H., Germany

SOURCE: PCT Int. Appl., 114 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9965882	A1	19991223	WO 1999-EP3817	19990602
W:	AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

DE 19925329	A1	19991223	DE 1999-19925329	19990602
AU 9945047	A1	20000105	AU 1999-45047	19990602
BR 9911350	A	20010313	BR 1999-11350	19990602
EP 1087948	A1	20010404	EP 1999-927843	19990602

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI, RO

JP 2002518378	T2	20020625	JP 2000-554708	19990602
US 2002091260	A1	20020711	US 2001-24425	20011218

PRIORITY APPLN. INFO.:

DE 1998-19826670 A 19980616

WO 1999-EP3817 W 19990602

US 1999-332222 B1 19990614

OTHER SOURCE(S): MARPAT 132:35722

AB Title compds. [I; R1 = (substituted) aryl, cycloalkyl, heterocyclyl, alkyl, alkenyl, alkynyl, etc.; R2 = (substituted) cycloalkyl, cycloalkenyl, heterocyclyl, Ph; R3 = H, (substituted) alkyl, aryl, cycloalkyl, etc.; R4 = B3D3; A1 = (substituted) alkylene, alkenylene, alkynylene; A2 = bond, (substituted) alkylene, alkenylene, alkynylene, etc.; X = halo, OH, amino, NO2, CHO, CO2H, cyano, (substituted) alkyl, alkylthio, alkylamino, alkenyl, alkynyl, alkylcarbonyl, etc.; 2 adjacent X = condensed (substituted) carbocyclyl, heterocyclyl; n = 0, 1, 3, 4, 5; B3 = CO, CS, CONH, CSNH, etc.; D3 = H, (substituted) alkyl, aryl, aralkyl, cycloalkyl, cycloalkylalkyl, etc.; with provisos], were prepd. Thus, 3-phenyl-1-cyclobutyl-1-biguanidinopropane hydrochloride and 3-ANG. mol. sieves in MeOH were treated with a soln. prepd. from Na in MeOH and then with Me 1-fluoro-1-methylpropionate followed by stirring at 25-65.degree. to give 79% 2-amino-4-(1-fluoro-1-methylethyl)-6-(3-phenyl-1-cyclobutyl-1-propylamino)-1,3,5-triazine. I at .ltoreq.1 kg/ha showed good preemergent activity against Stellaria media, Lolium multiflorum, Amaranthus retroflexus, etc.

IC ICM C07D251-18

ICS C07D407-12; C07D413-12; C07D417-12; C07D403-12; A01N043-68; C07C279-26

CC 28-19 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 5

IT 252576-81-1P 252576-83-3P 252576-85-5P 252576-87-7P
 252576-89-9P 252576-91-3P 252576-93-5P 252576-95-7P
 252576-97-9P 252576-99-1P 252577-01-8P 252577-03-0P
 252577-05-2P 252577-07-4P 252577-09-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of 2,4-diamino-1,3,5-triazines as herbicides and plant growth regulators)

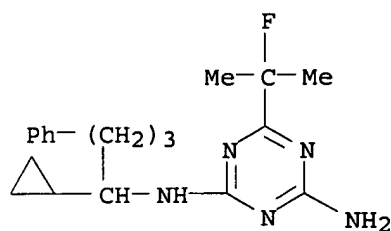
IT 252576-83-3P 252576-89-9P 252577-01-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of 2,4-diamino-1,3,5-triazines as herbicides and plant growth regulators)

RN 252576-83-3 HCAPLUS

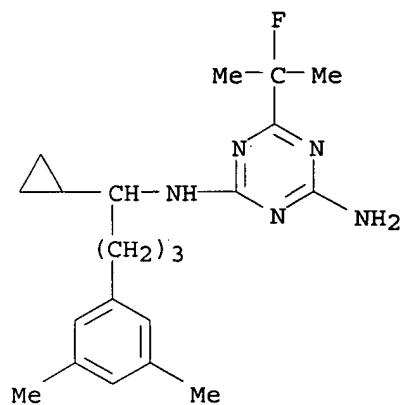
CN 1,3,5-Triazine-2,4-diamine, N-(1-cyclopropyl-4-phenylbutyl)-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)

Clardy 09/787,214



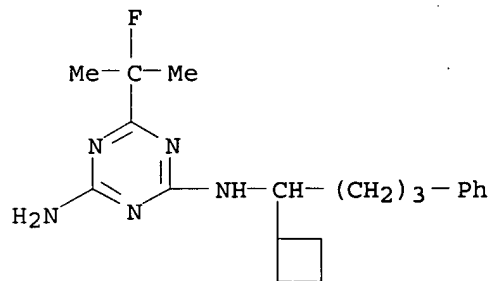
RN 252576-89-9 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-[1-cyclopropyl-4-(3,5-dimethylphenyl)butyl]-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)



RN 252577-01-8 HCAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-(1-cyclobutyl-4-phenylbutyl)-6-(1-fluoro-1-methylethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

12

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT